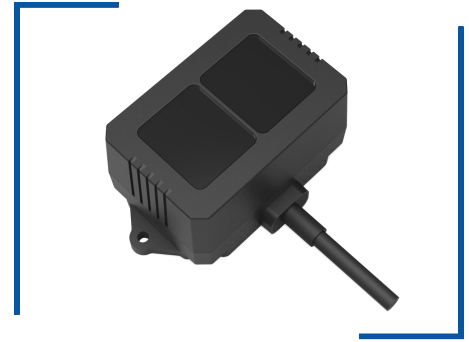


TF02-i is an updated single-point ranging LiDAR based on TF02-Pro. It has been optimized in communication interface, input voltage and reverse protection,



### Main Product

#### Characteristics

- 7-30V wide range input voltage
- Reverse protection
- CAN/RS485 interface

### Main application

#### scenarios

- Pedestrian detection
- Vehicle testing
- Altitude

## ■ Technical specification parameters

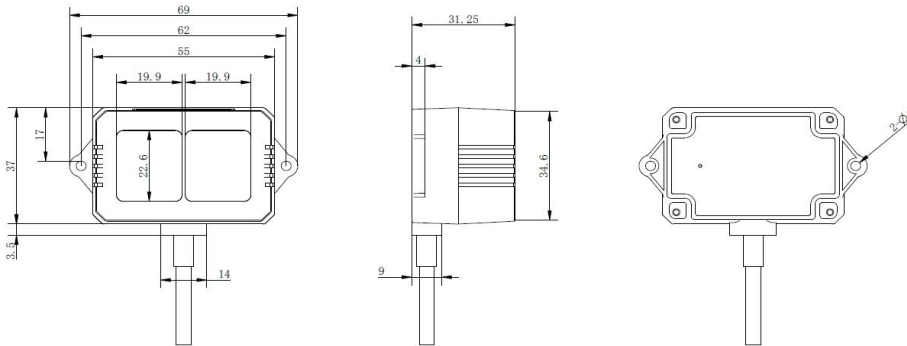
Parameters		Value
Product performance	Operating range	0.1~40m@90% reflectivity 0.1~13.5m@10% reflectivity 0.1~40m@90% reflectivity(100Klux) 0.1~13.5m@10% reflectivity(100Klux)
	Accuracy <sup>1</sup>	±5cm(0.1~5m), ±1%(5~40m)
	Distance resolution	1cm
	Frame rate	100Hz
	Repeatability	1σ:<2cm(0.1~35m@90% reflectivity)
	Ambient light immunity	100Klux
	Operation temperature	-20~60°C
Optical parameters	Enclosure rating	IP65
	Light source	VCSEL
	Central wavelength	850nm
	FOV	3°
Electrical parameters	Photobiological safety	Class 1(EN60825)
	Supply voltage	7~30V
	Average current	≤70mA@12V
	Power consumption	≤0.85W@12V
	Peak current	100mA

<sup>1</sup> The accuracy is measured at temperature of 25°C with white board (90% reflectivity). The error may be increased if condition changes

	Communication	RS-485	CAN
Others	Dimension	69mmx41.5mmx31.5mm (L*W*H)	
	Weight	60g(with cable)	
	Shell material	PC/ABS/PMMA	
	Storage temperature	-30~80°C	
	Cable length	70cm	

## Product appearance structure

TF02-i appearance dimensions (unit: mm)



## communication interface

Table 1 Communication Interface — RS485

Interface parameters	Default value
baud rate	115200
Data bits	8
Stop position	1
Parity check	None

Table 2 Communication Interface — CAN

Interface parameters	Default value
baud rate	250kbps
ID received	0x00000003
ID sent	0x00000003
Frame format	Standard frame